INTERNATIONAL SEARCH REPORT

International application No. PCT/NZ2004/000154

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Α.	CLASSIFICATION OF SUBJECT MAT	ΓER	· · · · · · · · · · · · · · · · · · ·		
Int. Cl. 7:	A23J 1/20, A23C 19/028, A23J 1/22				
According to I	International Patent Classification (IPC) or	to bot	h national classification and IPC		
B	FIELDS SEARCHED				
	mentation searched (classification system follo RONIC DATABASE FIELD BELOW		classification symbols)		
	searched other than minimum documentation to RONIC DATABASE FIELD BELOW		xtent that such documents are included in the fields:	searched	
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	DOCUMENTS CONSIDERED TO BE RELE	VANT		· · · · · · · · · · · · · · · · · · ·	
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Category*	Citation of document, with indication, w	here a	ppropriate, of the relevant passages	Relevant to claim No.	
	US 4202907 A (POARCH). 13 May	₇ 1980			
х	(see Table A in particular)			1 to 19, 27 and 28,	
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A	Udabage, P. et al. (2001) J. Dairy Sc	ience	84: 1569 – 1575 "Effects of mineral salts		
	and calcium chelating agents on the (Figure 3 in particular)	gelati	on of renneted skim milk"		
	(Figure 5 in particular)				
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F	urther documents are listed in the conf	tinuati	on of Box C X See patent family	annex	
* Special o	categories of cited documents: at defining the general state of the art which is	нTн	later document published after the international filing date	e or priority date and not in	
not cons	idered to be of particular relevance	•	conflict with the application but cited to understand the p underlying the invention	rinciple or theory	
"E" earlier application or patent but published on or after the "X" documents international filing date or care			document of particular relevance; the claimed invention or cannot be considered to involve an inventive step whe	annot be considered novel n the document is taken	
"L" document which may throw doubts on priority claim(s) "Y" document of particular relevance; the claimed invention or which is cited to establish the publication date of involve an inventive step when the document is combin				with one or more other	
"O" documer	citation or other special reason (as specified) nt referring to an oral disclosure, use, exhibition	such documents, such combination being obvious to a per document member of the same patent family	rson skilled in the art		
"P" document published prior to the international filing date					
but later than the priority date claimed Date of the actual completion of the international search Date of mailing of the international search report					
26 October 2004 2 6 October 2004 2 6 October 2004					
Name and mailing address of the ISA/AU			Authorized officer		
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA					
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Facsimile No. (02) 6285 3929			Telephone No : (02) 6283 2450		

INTERNATIONAL SEARCH REPORT

information on patent family members

International application No. PCT/NZ2004/000154

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member		
US	4202907			
Due to	data integration issue	this family listing may not include 10 digit Australian applications filed since May 2001.		
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PATENT COOPERATION TREATY **PCT**

REC'D	14	JUN	2005
WIPO			PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 501793 DCC	FOR FURTHER ACTION	R ACTION See Form PCT/IPEA/416		
International application No. PCT/NZ2004/000154	International filing date (day/month/year) 21 July 2004	Priority date (day/month/year) 24 July 2003		
International Patent Classification (IPC) or r	national classification and IPC			
Int. Cl. 7 A23J 1/20 A23C 19/028 A2	23J 1/22			
Applicant				
CARR, Alistair James et al				
·	•	•		
This report is the international preliminal Authority under Article 35 and transmitted.	ry examination report, established by this Intered to the applicant according to Article 36.	mational Preliminary Examining		
2. This REPORT consists of a total of 3	sheets, including this cover sheet.			
3. This report is also accompanied by ANN	EXES, comprising:			
a. (sent to the applicant and to the	International Bureau) a total of sheets, as f	ollows:		
sheets of the description, cl sheets containing rectificat Administrative Instructions	laims and/or drawings which have been amend ions authorized by this Authority (see Rule 70 s).	ded and are the basis for this report and/or .16 and Section 607 of the		
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.				
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or table related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).				
4. This report contains indications relating				
X Box No. I Basis of the report	t ·	·		
Box No. II Priority				
Box No. III Non-establishmen	t of opinion with regard to novelty, inventive	step and industrial applicability		
Box No. IV Lack of unity of in	Box No. IV Lack of unity of invention			
X Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. VI Certain documents cited				
Box No. VII Certain defects in	the international application	.		
Box No. VIII Certain observations on the international application				
Date of submission of the demand	Date of completion of	Date of completion of the report		
23 May 2005	2 June 2005	-		
Name and mailing address of the IPEA/AU	Authorized Officer	Authorized Officer		
AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRAL E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929	Philippa Wyrdemai	Philippa Wyrdeman Telephone No. (02) 6283 2554		

otherwise indicated under this item. This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of: international search (under Rules 12.3 and 23.1 (b)) publication of the international application (under Rule 12.4) international preliminary examination (under Rules 55.2 and/or 55.3)		INTERNATION	AL PRELI	IMINARI REPORT ON PATE	ENTABILITY	International application No.
1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item. This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of: international search (under Rules 12.3 and 23.1 (b)) publication of the international application (under Rules 15.2 and/or 55.3) with regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report); With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" furnished pages* as originally filed/furnished received by this Authority on with the letter of the claims: pages						PCT/NZ2004/000154
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If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/NZ2004/000154

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
citation	s and explanations supporting such statement

1. Statement					
	Novelty (N)	Claims 1 to 34	YES		
		Claims none	NO		
	Inventive step (IS)	Claims 1 to 34	YES		
,	·	Claims none	МО		
	Industrial applicability (IA)	Claims 1 to 34	· YES		
		Claims none	NO		

2. Citations and explanations (Rule 70.7)

The following citation from the International Search Report is referred to in this report:

D1: Poarch - US 4 202 907 - May 13, 1980.

D1 discloses a process for the preparation of a foodstuff component derived from milk protein (casein). The process comprises the reduction of calcium ions from skim milk so that upon treatment of calcium-reduced milk protein with a milk clotting enzyme, the reaction takes place in solution without the formation of a gel or curd.

For the process to take place in solution, D1 discloses that the calcium content of the milk caseinate needs to be between 8 to 70 mg per 100 ml when the enzyme is rennet (Table A).

The difference between D1 and the present application is that a kappa casein-containing milk protein which is a membrane filtration retentate is used as a starting material rather than skim milk. The use of kappa casein containing milk as a starting material results in the formation of a gel, which is suitable for cheese manufacture. This is inventive over the prior art.